LNP™ LUBRICOMP™ Lexan_WR2210 compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

Alternative polymeric wear additive technology. No silicones, superior processability/part appearance. Flow similar to LEXAN 121.

General Information	
Features	Good Processability
	Pleasing Surface Appearance

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
K (wear) Factor [1]	85.0		Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2]			ASTM D638
Yield	60.0	MPa	
Break	62.1	MPa	
Tensile Elongation [3] (Break)	94	%	ASTM D638
Flexural Modulus [4] (50.0 mm Span)	2390	MPa	ASTM D790
Flexural Strength [5] (Yield, 50.0 mm Span)	88.3	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.21		
vs. Steel - Static	0.17		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	660	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	56.2	J	ASTM D3763
Tensile Impact Strength [6]	630	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	127	°C	
1.8 MPa, Unannealed, 6.40 mm	128	°C	
RTI Elec	100	°C	UL 746
RTI Imp	100	°C	UL 746
RTI Str	100	°C	UL 746
Electrical	**Nominal Value**		**Test Method**

Arc Resistance [7]	PLC 5	ASTM D495
Comparative Tracking Index (CTI)	PLC 3	UL 746
High Amp Arc Ignition (HAI)	PLC 1	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746
Hot-wire Ignition (HWI)	PLC 2	UL 746
Flammability	Nominal Value	Test Method
Flame Rating (1.47 mm)	HB	UL 94

NOTE	
1.	xE-10, PV=2000 psi-fpm vs Steel
2.	Type I, 50 mm/min
3.	Type I, 50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	Type S
7.	Tungsten Electrode

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